

CLAIMS

1. A playback device for playing back a digital stream and
an application which are recorded on a recording medium, in
5 conjunction with each other, comprising:

 a playback unit operable to play back the digital stream;
and

 a platform unit operable to execute the application to
perform playback control, wherein

10 the playback unit has a plurality of real parameters used
for the playback control, the plurality of real parameters being
specific to the playback device,

 the platform unit includes:

15 an execution unit operable to interpret and execute the
application; and

 a module unit having a function to be provided to the
application, and operable to perform the playback control, and

 the playback control causes, via the function, the playback
unit to playback the digital stream based on one of the plurality
20 of real parameters.

2. The playback device of Claim 1, wherein

 the function to be provided to the application is a function
of supplying special playback information to the application
25 in response to a call from the application in execution, the
special playback information showing a correspondence between
a plurality of user events and the plurality of real parameters,
the playback control of the module unit responds to a

function call from the application, and
the special playback information is used for the function
call.

5 3. The playback device of Claim 2, wherein
each of the plurality of user events shows a type of a
button pushed by a user, and
each of the plurality of real parameters shows a playback
rate multiplication factor.

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4. The playback device of Claim 3, wherein
each of the plurality of user events further shows a pushing
count of the button, and
the special playback information shows a user event
15 including a higher pushing count in correspondence with a real
parameter showing a higher multiplication factor.

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5. The playback device of Claim 1, wherein
the function to be provided to the application is a function
of expanding a variable that corresponds to a playback rate,
received from the application in execution, into one of the
plurality of real parameters that corresponds to the playback
rate, and
the module unit has the playback unit play back the digital
25 stream based on the expanded real parameter.

6. The playback device of Claim 1, wherein
the function to be provided to the application is a function

of supplying array data listing the plurality of real parameters to the application, in response to a call from the application in execution.

5 7. The playback device of Claim 1, wherein
the execution unit controls rendering of graphics by
interpreting and executing the application.

8. The playback device of Claim 7, wherein
10 the function to be provided to the application is a function of supplying special playback information to the application in response to a call from the application, the special playback information showing a correspondence between a plurality of user events and the plurality of real parameters specific to the
15 playback device,

the module unit performs the playback control in response to a function call from the application using the special playback information, and

the application controls the rendering of the graphics
20 based on the special playback information acquired via the function.

9. The playback device of Claim 7, wherein
the function to be provided to the application is a function
25 of expanding a variable that corresponds to a playback rate, received from the application, into one of the plurality of real parameters that corresponds to the playback rate, and supplying the expanded real parameter to the application,

the module unit performs the playback control based on the expanded real parameter, and

the application controls the rendering of the graphics based on the expanded real parameter.

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10. A program for having a computer play back a digital stream and an application which are recorded on a recording medium, in conjunction with each other, comprising:

10 stream; and

a platform program operable to execute the application to perform playback control, wherein

15 the playback program has a plurality of real parameters used for the playback control, the plurality of real parameters being specific to the computer,

the platform program has a function to be provided to the application, and operable to perform the playback control, and

20 the playback control causes, via the function, the playback program to play back the digital stream based on one of the plurality of real parameters.